

**LVT7A1 STEERING LINKAGE TRAINER, DEVICE 16C76****TRAINING CATEGORY:**

COMBINED OPERATIONS (Amphibious)

**ORIGINATING AGENCY:**

CMC

**SECURITY CLASSIFICATION:**

Device 16C76 is unclassified.

**PURPOSE:**

The purpose of the device is to present an approximately full size operable mockup of steering linkages of the LVT7A1 vehicle so that the principles utilized in operation of the linkage and points of maintenance can be clearly understood.

**INTENDED USE:**

The training device will be used to provide military personnel a basic understanding of the operation of the vehicle steering linkages and to instruct them in correct maintenance procedures.

**FUNCTIONAL DESCRIPTION:**

Device 16C76 consists of an accurate representation of the steering linkage of the vehicle with easily recognized components in the same relative position. The mockup can be operated and is clearly visible to a small class of students.

The Steering Linkage Trainer presents the principles utilized in the operation of forward and reverse steer mechanism of the LVT7A1 vehicle. It presents the operation from input at the operator controls to the final action at the output shafts. Main components shown are the steering wheel, steering linkages, bell crank, reverse steer mechanism, housing, bulkheads, and engine location.

The linkage is supported on polycarbonate plate representing the engine bulkhead, the forward bulkhead, the outer bulkhead, the floorboards and the control console of the vehicle.

The linkage assemblies from the steering wheel through the linkages, bell crank, shafts and connecting linkages operate realistically and are adjustable.

The mockup of the steering linkage is mounted on a tubular aluminum, casted stand which is easily maneuvered to the demonstration site where the casters can be locked to provide a stable, non-tippable display unit.

The simulated engine bulkheads are fabricated of Lexan which allows visibility of internal parts as well as protecting observers from contact with moving parts.

The trainer has been designed to simulate the train of action of the actual equipment with simulated components that can be identified and which are similarly located in the vehicle.

An operation chart and a diagram with identifying nomenclature have been included in the manual which is furnished with the device.

**PHYSICAL INFORMATION:**

Unit: One (1) - Mockup on a stand  
Size: 34" W x 72" L x 72" H  
Weight: Approximately 445 pounds

**POWER REQUIREMENTS:**

No electrical power is required since Device 16C76 is manually operated.

**PUBLICATIONS FURNISHED:**

An operation and maintenance guide, "LVT7A1 Steering Linkage Trainer", Device 16C76, NTEC, P-6033 (U)".

**PERSONNEL:**

Instructor: One (1)  
Operator: Instructor or trained student  
Trainees: 18 to 20 students

**CONTRACT IDENTIFICATION:**

Manufactured by Ben Lorenz Associates, Inc., Bedford Hills, NY 10507 under NAVTRA-SYSCEN Contract No. N61339-83-C-0025.

**LOCAL STOCK NUMBER:**

6910-LL-C00-6381